

# Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

# WHAT IS THE GHS

- GHS is:
  - A Global Harmonized System of Classification and Labeling of Chemicals
  - Globally Harmonized criteria for classifying substances and mixtures according to their health, environmental and physical hazards
  - Globally Harmonized communicating elements including labels and safety data sheets.

# Changes to the Hazard Communication Standard.

- Material Safety Data Sheet (MSDS) will now be Safety Data Sheet (SDS)
- Changes to the SDS are anticipated to make reading and understanding of the SDS easier.
- Label changes will give more information.
- Label information will including first aid information.

# Changes to the Hazard Communication Standard.

- SDS will have 16 sections (vs. OSHA's current 9)
  1. Product and Company Information
  2. Hazards identification
  3. Composition/Information on ingredients
  4. First-aid measures
  5. Fire-fighting measures
  6. Accidental release measures
  7. Handling and storage
  8. Exposure controls/personal protection
  9. Physical and Chemical properties
  10. Stability and Reactivity
  11. Toxicity information
  12. Ecological information
  13. Disposal considerations
  14. Transport information
  15. Regulatory information
  16. Other information

# Changes to the Hazard Communication Standard.

- Some terminology will change: Examples
  - Chemical will now be Substance
  - Chemical Name will now be Chemical Identity
  - Health Hazard will be broken into
    - Hazard Class (e.g. flammable, corrosive, etc.)
    - Hazard Category – Division of the Hazard Class (e.g. acute oral toxicity)
  - Hazard Warning will be changed to:
    - Hazards Statement – Describes the nature of the hazard
    - Pictogram – A composition intended to convey specific information.

# Changes to the Hazard Communication Standard.

- Labels will have much more information to assist in identifying hazards.

Product identifier;

Signal word;

Hazard statement(s);

Pictogram(s);

Precautionary statement(s); and,

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party.

# Changes to the Hazard Communication Standard.

## GHS Label (example)

Product Name: **ACETONE**

Product Name

Product code: 3000



Pictograph

Signal word: **Danger**

**Danger**

Signal Word

Hazard  
Precautionary  
Statements:

**Extremely flammable liquid and vapour. Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness. Keep out of reach of children. IF IN EYES: Rinse cautiously with water for several minutes. IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.**

**Liquide et vapeurs extrêmement inflammables. Provoque une sévère irritation des yeux. L'exposition répétée peut provoquer dessèchement ou gerçures de la peau. Peut provoquer somnolence ou vertiges. Tenir hors de portée des enfants. EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. EN CAS D'INGESTION: Rincer la bouche. Appeler immédiatement un CENTRE ANTIPOISON ou un médecin.**

Physical, Health,  
Environmental  
Hazard Statement

Supplier name: **COMPANY NAME**

Supplier address: **My Street 123**

Contact tel.: **123 456 789**

Name, Address,  
Phone Number

REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER INFORMATION

# Changes to the Hazard Communication Standard

- Pictograms will be standardized.



Corrosive  
Eye, Skin,  
Metal



Gas under  
pressure



Explosive



Flammable



Aquatic  
toxicity



Acute  
toxicity



Carcinogen,  
Respiratory sensitizer,  
Reproductive toxicity,  
Mutagen



Oxidizer, Organic  
peroxide



Acute toxicity  
(harmful), Skin  
irritant, Eye irritant,  
Skin sensitizer



# Changes to the Hazard Communication Standard

- Use of **Danger** and **Warning**.
  - Danger is used for more severe hazards
  - Warning is used for less severe hazards
  - Some substances that have lower level hazards will not have a signal word.

# Example of what you might see on the actual product.



ToxiFlam (Contains: XYZ)



**Danger! Toxic If Swallowed, Flammable Liquid and Vapor**

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat/sparks/open flame. - No smoking. Wear protective gloves and eye/face protection. Ground container and receiving equipment. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Store in cool/well-ventilated place.

**IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.**

**In case of fire, use water fog, dry chemical, CO2, or "alcohol" foam.**

See Safety Data Sheet for further details regarding safe use of this product.

MyCompany, MyStreet, MyTown NJ 00000, Tel: 444 999 9999